

		Intended End Points		
EYFS		KS1	K	52
To make observations of animals and plants and explain why some things occur.		To find out and describe the basic needs of all living things - plants and animals, including humans.	To classify plants and animals based on specific characteristics ar identify how animals and plants are adapted to suit their environme	
Children can observe a range of phenomena and describe what they see, hear and feel.		Children carry out hands on, first-hand comparative tests and talk about their findings using scientific language	Children ask their own scientific questions and understand how to pla and carry out fair tests in order to communicate their findings in a variety of ways.	
Children can explore and observe a range of places, objects and materials, identifying their similarities and differences		Identify and compare the suitability of a variety of everyday materials based on their simple properties and find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Compare and group together everyday materials on the basis of their properties and investigate that some solids will dissolve into a liquid and that some mixtures can be reversed.	
Autum	าท	Spring	Summer	
Year 1 Everyday Materials	Human Senses	Seasonal Change	Plant Parts	Animal Parts
This project teaches children that objects are made from materials. They identify a range of everyday materials and their sources. Children investigate the properties of materials and begin to recognise that a material's properties define its use.	This project teaches children that humans are a type of animal, known as a mammal. They name body parts and recognise common structures between humans and other animals. They learn about the senses, the body parts associated with each sense and their role in keeping us safe.	This project teaches children about the seasons, seasonal changes and typical seasonal weather and events. They learn about measuring the weather and the role of a meteorologist. Children begin to learn about the science of day and night and recognise that the seasons have varying day lengths in the UK.	This project teaches children about wild and garden plants by exploring the local environment. They identify and describe the basic parts of plants and observe how they change over time.	This project teaches children about animals, including fish, amphibians, reptiles, birds, mammals and invertebrates. They identify and describe their common structures, diets, and how animals should be cared for.
 ✓ Ask simple questions and recognise that they can be answered in different ways. ✓ Compare and group together a variety of everyday materials on the basis of their simple physical properties. ✓ Describe the simple physical properties of a variety of everyday materials. ✓ Distinguish between an object and the material from which it is made. ✓ Gather and record data to help in answering questions. ✓ Identify and classify. 	 Ask simple questions and recognise that they can be answered in different ways. Observe closely, using simple equipment. Perform simple tests. Identify and classify. Use their observations and ideas to suggest answers to questions. Gather and record data to help in answering questions. Identify and name a variety of 	 ✓ Ask simple questions and recognise that they can be answered in different ways. ✓ Gather and record data to help in answering questions. ✓ Identify and classify. ✓ Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. ✓ Observe and describe weather associated with the seasons and how day length varies. ✓ Observe changes across the four seasons. ✓ Observe closely, using simple equipment. ✓ Perform simple tests. ✓ Use their observations and ideas to suggest answers to questions. ✓ Develop scientific knowledge and conceptual understanding through the 	 ✓Ask simple questions and recognise that they can be answered in different ways. ✓ Gather and record data to help in answering questions. ✓ Identify and classify. ✓ Identify and describe the basic structure of a variety of common flowering plants, including trees. ✓ Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. ✓ Observe closely, using simple equipment. ✓ Perform simple tests. 	 ✓ Ask simple questions and recognise that they can be answered in different ways. ✓ Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). ✓ Gather and record data to help in answering questions. ✓ Identify and classify. ✓ Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. ✓ Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.
 ✓ Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. ✓ Observe closely, using simple equipment. ✓ Perform simple tests. ✓ Use their observations and ideas to suggest answers to questions. ✓ Develop understanding of the nature, processes and methods of science 	 ✓ Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. ✓ Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). ✓ Identify, name, draw and label the basic parts of the human 	 ✓ Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. ✓ Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them. 	 ✓ Perform simple fests. ✓ Use their observations and ideas to suggest answers to questions. ✓ Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. ✓ Develop understanding of the nature, processes and methods of science through different types of science enquiries that 	 animals that are carnivores, herbivores and omnivores. ✓ Observe closely, using simple equipment. ✓ Perform simple tests. ✓ Use their observations and ideas to suggest answers to questions. ✓ Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.



identify parts of a magnet and magnetic materials.

	oody and say which part of the body is associated with each sense.			help them to answer scientific ques about the world around them.
Human Survivalproject teaches childrenhe basic needs of humanssurvival, including theince of exercise, nutritiond hygiene. They learn howoffspring grow and changeto	Habitats This project teaches children about habitats and what a abitat needs to provide. They cplore local habitats to identify and name living things and begin o understand how they depend on one another for food and shelter.	Uses of Materials This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can be changed.	Plant Survival This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying what plants need to grow and stay healthy.	This project teaches children abo some familiar animals. They build on the basic needs of animals for
be answered in different ways. importance for humans of ing the right amounts of bes of food, and hygiene. ut and describe the basic als, including humans, for water, food and air). d record data to help in tering questions. animals, including humans, g which grow into adults. e closely, using simple equipment. form simple tests. bservations and ideas to the simple tests. different the simple tests. bservations and ideas to the simple tests. baservations to questions.	 ✓ Ask simple questions and recognise that they can be answered in different ways. ✓ Observe closely, using simple equipment. ✓ Perform simple tests. ✓ Identify and classify. ✓ Use their observations and ideas to suggest answers to questions. Gather and record data to help in answering questions. ✓ Explore and compare the fferences between things that re living, dead, and things that have never been alive. ✓ Identify that most living things live in habitats to which ey are suited and describe how different habitats provide for the basic needs of different inds of animals and plants, and ow they depend on each other. Identify and name a variety of plants and animals in their ibitats, including microhabitats. ✓ Describe how animals obtain neir food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of 	 ✓ Ask simple questions and recognise that they can be answered in different ways. ✓ Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. ✓ Gather and record data to help in answering questions. ✓ Identify and classify. ✓ Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. ✓ Observe closely, using simple equipment. ✓ Perform simple tests. ✓ Use their observations and ideas to suggest answers to questions. ✓ Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. 	 ✓ Ask simple questions and recognise that they can be answered in different ways. ✓ Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. ✓ Gather and record data to help in answering questions. ✓ Identify and classify. ✓ Identify and name a variety of plants and animals in their habitats, including microhabitats. ✓ Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. ✓ Observe and describe how seeds and bulbs grow into mature plants. ✓ Observe closely, using simple equipment. ✓ Perform simple tests. ✓ Use their observations and ideas to suggest answers to questions. ✓ Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. 	 ✓ Ask simple questions and recog ✓ Describe how animals obtain their a simple food chain, and ide ✓ Find out about and describe the b (wa ✓ Gather and record ✓ Identify and compare the suitabili metal, plastic, glass, brick, re ✓ Identify and name a variety of ✓ Identify that most living things li how different habitats provide for plants, and had ✓ Notice that animals, including ✓ Observe cl ✓ Pe ✓ Use their observations ✓ Develop scientific knowledge a disciplines of b
Animal Nutrition and The roject teaches children about the and other animals. They learn ab	ne importance of nutrition for	Forces and This project teaches children about con friction and magnetism. They investigat	tact and non-contact forces, including	Plant Nutrition and Reproduction This project teaches children abour requirements of plants for growth

humans and other animals. They learn about the role of a skeleton and muscles and identify animals with different types of skeleton.

survival. They describe the parts of flowering plants and relate structure to

questions	
iem.	

Animal Survival

about growth in animals by exploring the life cycles of d on learning about the survival of humans by identifying for survival, including food, water, air and shelter.



ecognise that they can be answered in different ways. neir food from plants and other animals, using the idea of d identify and name different sources of food.

he basic needs of animals, including humans, for survival (water, food and air).

cord data to help in answering questions.

✓ Identify and classify.

ability of a variety of everyday materials, including wood, :k, rock, paper and cardboard for particular uses.

ety of plants and animals in their habitats, including microhabitats.

gs live in habitats to which they are suited and describe e for the basic needs of different kinds of animals and d how they depend on each other.

iding humans, have offspring which grow into adults.

ve closely, using simple equipment.

 \checkmark Perform simple tests.

ons and ideas to suggest answers to questions

ge and conceptual understanding through the specific of biology, chemistry and physics.

uction about the owth and arts of ucture to

Light and Shadows

This project teaches children about light and dark. They investigate the phenomena of reflections and shadows, looking for



			function, including the roots and stem for transporting water, leaves for making food and the flower for reproduction.	patterns in collected data. The risks associated with the Sun are also explored.
 ✓ Ask relevant questions and using different types of scientific enquiries to answer them. ✓ Gather, record, classify and present data in a variety of ways to help in answering questions. ✓ Identify differences, similarities or changes related to simple scientific ideas and processes. ✓ Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. ✓ Identify that humans and some other animals have skeletons and muscles for support, protection and movement. ✓ Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. ✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. ✓ Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. ✓ Set up simple practical enquiries, comparative and fair tests. ✓ Use straightforward scientific evidence to answer questions or to support their findings. 	 ✓ Ask relevant questions and using diff answer ✓ Compare and group together a variety whether they are attracted to a magnet ✓ Compare how things mov ✓ Describe magnets ✓ Gather, record, classify and presen answering a ✓ Identify differences, similarities or ideas and p ✓ Make systematic and careful obser accurate measurements using standar including thermomete ✓ Notice that some forces need contar forces can act ✓ Observe how magnets attract or materials and ✓ Predict whether two magnets will att which poles ✓ Record findings using simple scientific keys, bar chart ✓ Set up simple practical enquir ✓ Use results to draw simple conclusio suggest improvements and ✓ Use straightforward scientific evide their fit 	 them. y of everyday materials on the basis of , and identify some magnetic materials. ve on different surfaces. as having two poles. at data in a variety of ways to help in questions. r changes related to simple scientific processes. vations and, where appropriate, take rd units, using a range of equipment, ers and data loggers. ct between two objects, but magnetic at a distance. repel each other and attract some d not others. ract or repel each other, depending on are facing. c language, drawings, labelled diagrams, ts, and tables. neluding oral and written explanations, of results and conclusions. ies, comparative and fair tests. ons, make predictions for new values, d raise further questions. ence to answer questions or to support 	 ✓ Ask relevant questions and using different types of scientific enquiries to answer them. ✓ Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. ✓ Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. ✓ Gather, record, classify and present data in a variety of ways to help in answering questions. ✓ Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. ✓ Identify differences, similarities or changes related to simple scientific ideas and processes. ✓ Investigate the way in which water is transported within plants. ✓ Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. ✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. ✓ Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. ✓ Set up simple practical enquiries, including oral and written explanations, displays or presentations of results and conclusions. ✓ Set up simple practical enquiries, make predictions for new values, suggest improvements and raise further questions. 	 ✓ Ask relevant questions and using different types of scientific enquiries to answer them. ✓ Find patterns in the way that the size of shadows change. ✓ Gather, record, classify and present data in a variety of ways to help in answering questions. ✓ Identify differences, similarities or changes related to simple scientific ideas and processes. ✓ Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. ✓ Notice that light from the sun can be dangerous and that there are ways to protect their eyes. ✓ Recognise that shadows are formed when the light from a light source is blocked by a solid object. ✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. ✓ Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. ✓ Set up simple practical enquiries, make predictions for new values, suggest improvements and raise further questions.
Year Food and The Digestive Sound	States of Matter	Grouping and Classifying	Electrical Circuit	s and Conductors
4 System This project teaches children about the human digestive system. They explore the main parts, starting with the mouth and teeth identifying This project teaches children about sound and how sounds are made and travel as vibrations through a medium to the ear. They learn about pitch and volume and find out how both can be changed.	This project teaches children about solids, liquids and gases and their	This project teaches children about grouping living things, known as classification. They study the animal and plant kingdoms and use and create classification keys to identify living things.	simple series circuits and name their parts cells. They investigate electrical conductors	rical appliances and safety. They construct and functions, including switches, wires and and insulators and identify common features t programmable devices. They combine their ad make a nightlight.



teeth types and their functions. They link this learning to animals' diets and construct food chains to show the flow of energy.



✓ Ask relevant questions and using different types of scientific enquiries to answer them. \checkmark Construct and interpret a variety of food chains, identifying producers, predators and prey. \checkmark Describe the simple functions of the basic parts of the digestive system in humans. ✓ Gather, record, classify and present data in a variety of ways to help in answering questions. ✓ Identify differences, similarities or changes related to simple scientific ideas and processes. ✓ Identify the different types of teeth in humans and their simple functions. ✓ Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. \checkmark Recognise that environments can change and that this can sometimes pose dangers to living things.

✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. ✓ Report on findings from enguiries, including oral and written explanations, displays or presentations of results and conclusions. ✓ Set up simple practical enguiries, comparative and fair tests.



✓ Ask relevant questions and using different types of scientific enquiries to answer them √Set up simple practical enquiries, comparative and fair tests. √Make systematic and careful

observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

✓ Gather, record, classify and present data in a variety of ways to help in answering questions.

✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

✓ Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. ✓ Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise

further questions. ✓ Identify differences, similarities or changes related to simple scientific

ideas and processes. ✓ Use straightforward scientific

evidence to answer questions or to support their findings.

 \checkmark Identify how sounds are made, associating some of them with something vibrating.

 \checkmark Recognise that vibrations from sounds travel through a medium to the ear.

✓ Find patterns between the pitch of a sound and features of the object that produced it.

 \checkmark Find patterns between the volume of a sound and the strength of the vibrations that produced it.



✓ Compare and group materials together, according to whether they are solids, liquids or gases. \checkmark Gather, record, classify and present data in a variety of ways to

help in answering questions. ✓ Identify differences, similarities or changes related to simple scientific ideas and processes.

✓ Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

 \checkmark Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in

degrees Celsius (°C). ✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

✓ Report on findings from enquiries, including oral and written explanations, displays or presentations of results and

conclusions. ✓ Set up simple practical enquiries, comparative and fair tests . ✓ Use results to draw simple

conclusions, make predictions for new values, suggest improvements and

raise further questions. ✓ Use straightforward scientific evidence to answer questions or to support their findings.



✓ Ask relevant questions and using different types of scientific enquiries to answer them.

✓ Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.

✓ Gather, record, classify and present data in a variety of ways to

help in answering questions. ✓ Identify differences, similarities or changes related to simple scientific ideas and processes.

✓ Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

 \checkmark Recognise that living things can be grouped in a variety of ways. ✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. ✓ Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. ✓ Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. ✓ Use straightforward scientific evidence to answer questions or to support their findings.

✓ Ask relevant questions and using different types of scientific enquiries to answer them

 \checkmark Identify common appliances that run on electricity. ✓ Identify differences, similarities or changes related to simple scientific ideas and

✓ Recognise some common conductors and insulators, and associate metals with being good conductors.

✓ Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.



✓ Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.

✓ Gather, record, classify and present data in a variety of ways to help in answering questions.

processes.

✓ Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.

 \checkmark Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

✓ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.



 ✓ Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. ✓ Use straightforward scientific evidence to answer questions or to support their findings. ✓ Are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future. 	✓ Recognise that sounds get fainter as the distance from the sound source increases.		
Year Earth and Space	Forces and Mechanisms	Human Reproduction and Ageing	Properties
5 This project teaches children about our Solar System and its spherical bodies. They describe the movements of Earth and other planets relative to the Sun, the Moon relative to Earth and the Earth's rotation to explain day and night.	This project teaches children about the forces of gravity, air resistance, water resistance and friction, with children exploring their effects. They learn about mechanisms, their uses and how they allow a smaller effort to have a greater effect.	This project teaches children about animal life cycles, including the human life cycle. They explore human growth and development to old age, including the changes experienced during puberty and human reproduction.	This project teaches children abou They learn about mixtures and how evaporation. They study reversible c to identi
✓ Plan different types of	✓ Plan different types of scientific	✓ Describe the changes as humans develop to old age.	✓ Compare and group together eve
scientific enquiries to answer	enquiries to answer questions, including	\checkmark Describe the differences in the life cycles of a mammal, an amphibian, an	including their hardness, solubility,
questions, including recognising	recognising and controlling variables	insect and a bird.	and r
and controlling variables where	where necessary.	✓ Describe the life process of reproduction in some plants and animals.	✓ Demonstrate that dissolving, m
necessary. √ Take measurements, using a	✓ Take measurements, using a range of scientific equipment, with increasing	✓ Identify scientific evidence that has been used to support or refute ideas or arguments.	 ✓ Explain that some changes result i of change is not usually reversible,
range of scientific equipment,	accuracy and precision, taking repeat	✓ Plan different types of scientific enquiries to answer questions, including	action of a
with increasing accuracy and	readings when appropriate.	recognising and controlling variables where necessary.	✓ Give reasons, based on evidence t
precision, taking repeat readings	\checkmark Record data and results of increasing	\checkmark Record data and results of increasing complexity using scientific diagrams	uses of everyday mater
when appropriate.	complexity using scientific diagrams and	and labels, classification keys, tables, scatter graphs, bar and line graphs.	✓ Identify scientific evidence t
✓ Record data and results of increasing complexity using	labels, classification keys, tables, scatter graphs, bar and line graphs.	✓ Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and	✓ Know that some materials will diss
scientific diagrams and labels,	✓ Use test results to make predictions	written forms such as displays and other presentations.	recover a
classification keys, tables, scatter	to set up further comparative and fair	✓ Take measurements, using a range of scientific equipment, with increasing	✓ Plan different types of scientific
graphs, bar and line graphs.	tests.	accuracy and precision, taking repeat readings when appropriate.	and controllin
✓ Use test results to make	✓ Report and present findings from	✓ Use test results to make predictions to set up further comparative and fair	✓ Record data and results of increasing the second data and results
predictions to set up further comparative and fair tests.	enquiries, including conclusions, causal relationships and explanations of and	tests. ✓ Develop scientific knowledge and conceptual understanding through the	classification keys, tabl ✓ Report and present findings from
✓ Report and present findings	degree of trust in results, in oral and	specific disciplines of biology, chemistry and physics.	and explanations of and degree of
from enquiries, including	written forms such as displays and other		displays
conclusions, causal relationships	presentations.		✓ Take measurements, using a rang
and explanations of and degree of	✓ Identify scientific evidence that has		and precision, taking
trust in results, in oral and	been used to support or refute ideas or		✓ Use knowledge of solids, liquids an
written forms such as displays and other presentations.	arguments. √ Explain that unsupported objects fall		including through √ Use test results to make predict
	towards the Earth because of the force		✓ Develop scientific knowledge ar
	of gravity acting between the Earth and		disciplines of L

ties and Change of Materials

about the wider properties of materials and their uses. how they can be separated using sieving, filtration and ble and irreversible changes, and use common indicators dentify irreversible changes.



r everyday materials on the basis of their properties, lity, transparency, conductivity (electrical and thermal), and response to magnets.

g, mixing and changes of state are reversible changes. Sult in the formation of new materials, and that this kind ible, including changes associated with burning and the of acid on bicarbonate of soda.

nce from comparative and fair tests, for the particular naterials, including metals, wood and plastic.

ace that has been used to support or refute ideas or arguments.

dissolve in liquid to form a solution, and describe how to er a substance from a solution.

tific enquiries to answer questions, including recognising rolling variables where necessary.

creasing complexity using scientific diagrams and labels, tables, scatter graphs, bar and line graphs.

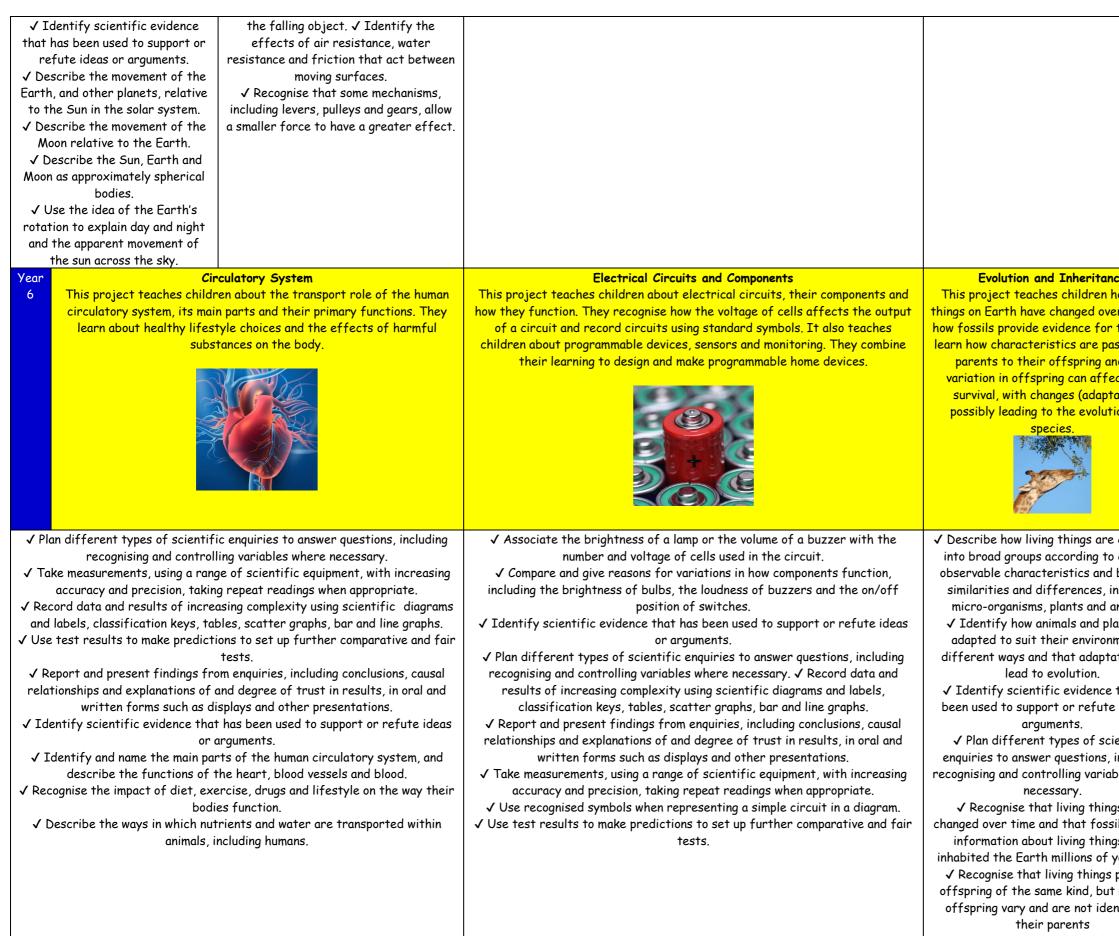
rom enquiries, including conclusions, causal relationships e of trust in results, in oral and written forms such as ays and other presentations.

range of scientific equipment, with increasing accuracy aking repeat readings when appropriate.

Is and gases to decide how mixtures might be separated, ugh filtering, sieving and evaporating.

edictions to set up further comparative and fair tests. ge and conceptual understanding through the specific rof biology, chemistry and physics.





✓ Record data and results of i complexity using scientific diad

nce	Light Theory
how living	This project teaches children about the
er time and	way that light behaves, travelling in
this. They	straight lines from a source or reflector,
assed from	into the eye. They explore how we see light
nd how	and colours, and phenomena associated
ect their	with light, including shadows, reflections
tations)	and refraction.
rion of a	
e classified	✓ Explain that we see things because light
o common	travels from light sources to our eyes or
l based on	from light sources to objects and then to
including	our eyes.
animals.	\checkmark Identify scientific evidence that has
lants are	been used to support or refute ideas or
iment in	arguments.
ation may	✓ Plan different types of scientific
that has	enquiries to answer questions, including recognising and controlling variables where
e ideas or	necessary.
	✓ Recognise that light appears to travel in
ientific	straight lines.
including	Record data and results of
bles where	increasing complexity using scientific
	diagrams and labels, classification keys,
gs have	tables, scatter graphs, bar and line graphs.
sils provide	✓ Report and present findings from
gs that	enquiries, including conclusions, causal
years ago.	relationships and explanations of and
produce	degree of trust in results, in oral and
t normally	written forms such as displays and other
entical to	presentations.
	\checkmark Take measurements, using a range of
ncreasing grams and	scientific equipment, with increasing



labels, classification keys, table graphs, bar and line grap √ Report and present findin
enquiries, including conclusion relationships and explanation
degree of trust in results, in written forms such as displays presentations.
✓ Take measurements, using a scientific equipment, with inc
accuracy and precision, taking readings when appropria
✓ Use test results to make pre set up further comparative and

es, scatter	accuracy and precision, taking repeat
phs.	readings when appropriate.
igs from	\checkmark Use test results to make predictions to
ns, causal	set up further comparative and fair tests.
ns of and	✓ Use the idea that light travels in
oral and	straight lines to explain that objects are
and other	seen because they give out or reflect light
	into the eye.
a range of	✓ Use the idea that light travels in
creasing	straight lines to explain why shadows have
ig repeat	the same shape as the objects that cast
ate.	them.
dictions to	✓ Are equipped with the scientific
l fair tests.	knowledge required to understand the uses
	and implications of science, today and for
	the future.
	✓ Develop scientific knowledge and
	conceptual understanding through the
	specific disciplines of biology, chemistry
	and physics.